

International Application No  
PCT/GB 03/03844

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C04B16/08 B28B23/00 C08J9/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C04B B28B C08J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

### WPI Data

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 225 299 A (BASF) 17 March 1971 (1971-03-17) page 1, line 65-73 page 2, line 7-63	1-6, 8-12,15
Y	---	7
X	GB 1 089 442 A (BUILDING RES HOLDING LTD) 1 November 1967 (1967-11-01) claims 1,8-11,16,17	1-4, 12-15,54
Y	---	55,56, 62,63, 71,72, 75,95-98
Y	EP 0 164 300 A (TABAKOFF ALEXANDER DIPL ING ; INCEL ZEKI (DE)) 11 December 1985 (1985-12-11) claim 1	7

-/-

**Y** Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

- **Special categories of cited documents :**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to interpret the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*B\* document member of the same patent family

Date of the actual completion of the international search

**12 February 2004**

Date of mailing of the international search report

**25/02/2004**

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

**Authorized officer**

**Daeleman, P**

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 03/03844

## G.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 1 588 899 A (MASO THERM CORP) 29 April 1981 (1981-04-29)  claim 1; figure 5	55,56, 62,63, 71,72, 75,95-98
X	DE 31 11 536 A (CARL HEINZ ING GRAD) 30 September 1982 (1982-09-30) claims 1,2	1-4,15
X	WO 97 31876 A (WETTER REGINA ; ALPHA BREVET SA (CH)) 4 September 1997 (1997-09-04) claim 1	1-3,5,15
X	WO 96 30315 A (BLOCKEN WILFRIED) 3 October 1996 (1996-10-03) claims 1,2,6,7,9	1-4,10, 11,15
X	DATABASE WPI Week 200279 Derwent Publications Ltd., London, GB; AN 2002-730407 XP002270116 & RU 2 188 176 C (GERASIMOV V V), 27 August 2002 (2002-08-27) abstract	1-3,5-7, 15
X	US 5 422 051 A (SAWYERS JOHN P) 6 June 1995 (1995-06-06)  column 3, line 59,60; claims 1,2	16-18, 22, 27-29, 40-42, 44,46,53
A	DE 42 33 600 C (HOELTER HEINZ) 3 March 1994 (1994-03-03) claim 1	16
A	EP 0 503 241 A (BASF AG) 16 September 1992 (1992-09-16) claim 1	1
A	US 5 350 554 A (MILLER ROBERT G) 27 September 1994 (1994-09-27)	
A	US 4 816 091 A (MILLER ROBERT G) 28 March 1989 (1989-03-28)	
A	DE 299 13 156 U (WEDI STEPHAN) 14 October 1999 (1999-10-14)	

-/-

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 03/03844

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p> <b>DATABASE WPI</b>  <b>Week 200042</b>  <b>Derwent Publications Ltd., London, GB;</b>  <b>AN 2000-481562</b>  <b>XP002270117</b>  <b>&amp; RU 2 140 886 C (LAPTEV I),</b>  <b>10 November 1999 (1999-11-10)</b>  <b>abstract</b> </p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03844

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1225299	A	17-03-1971	AT 285651 B	10-11-1970
			BE 718640 A	27-01-1969
			CH 488056 A	31-03-1970
			DE 1658436 A1	15-04-1971
			FR 1575117 A	18-07-1969
			NL 6810493 A ,B	29-01-1969
			US 3732791 A	15-05-1973
GB 1089442	A	01-11-1967	AT 254025 B	10-05-1967
			BE 662848 A	17-08-1965
EP 0164300	A	11-12-1985	DE 3417077 A1	14-02-1985
			DE 3517005 A1	13-11-1986
			EP 0164300 A1	11-12-1985
GB 1588899	A	29-04-1981	US 4229497 A	21-10-1980
			AU 3188777 A	28-06-1979
			BR 7708678 A	15-08-1978
			CA 1085182 A1	09-09-1980
			DE 2756820 A1	29-06-1978
			FR 2375405 A1	21-07-1978
			IL 53573 A	16-09-1980
			IT 1091800 B	06-07-1985
			JP 53092822 A	15-08-1978
			ZA 7707251 A	27-09-1978
			ES 466319 A1	01-10-1978
DE 3111536	A	30-09-1982	DE 3111536 A1	30-09-1982
WO 9731876	A	04-09-1997	WO 9731876 A1	04-09-1997
			AU 1759397 A	16-09-1997
			DE 19780146 D2	25-11-1999
WO 9630315	A	03-10-1996	BE 1009260 A3	07-01-1997
			AT 174884 T	15-01-1999
			AU 697758 B2	15-10-1998
			AU 5143596 A	16-10-1996
			BG 62396 B1	29-10-1999
			BG 101899 A	31-03-1998
			BR 9607765 A	30-11-1999
			CA 2212962 A1	03-10-1996
			CN 1179141 A ,B	15-04-1998
			CZ 9703003 A3	17-12-1997
			DE 59601052 D1	04-02-1999
			DK 815065 T3	23-08-1999
			WO 9630315 A1	03-10-1996
			EP 0815065 A1	07-01-1998
			ES 2128843 T3	16-05-1999
			GR 3029765 T3	30-06-1999
			HU 9800842 A2	28-08-1998
			JP 11505203 T	18-05-1999
			NO 974391 A	23-09-1997
			PL 322357 A1	19-01-1998
			RU 2158246 C2	27-10-2000
			TR 9700835 T1	21-01-1998
			US 5904763 A	18-05-1999
RU 2188176	C	27-08-2002	RU 2188176 C2	27-08-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03844

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5422051	A	06-06-1995	NONE	
DE 4233600	C	03-03-1994	DE 4233600 C1	03-03-1994
			DE 4323865 A1	19-01-1995
			DE 4325595 A1	02-02-1995
			EP 0591895 A2	13-04-1994
EP 0503241	A	16-09-1992	DE 4104418 C1	14-05-1992
			AT 111012 T	15-09-1994
			AU 644943 B2	23-12-1993
			AU 1090792 A	20-08-1992
			CA 2061175 A1	15-08-1992
			DE 59200453 D1	13-10-1994
			EP 0503241 A1	16-09-1992
			ES 2059164 T3	01-11-1994
			JP 4318003 A	09-11-1992
			US 5145878 A	08-09-1992
US 5350554	A	27-09-1994	AU 1255792 A	07-09-1992
			CA 2060060 A1	02-08-1992
			JP 6198618 A	19-07-1994
			MX 9200213 A1	01-08-1992
			WO 9213645 A1	20-08-1992
US 4816091	A	28-03-1989	NONE	
DE 29913156	U	14-10-1999	DE 29913156 U1	14-10-1999
			DE 20012738 U1	07-12-2000
			EP 1072397 A2	31-01-2001
RU 2140886	C	10-11-1999	RU 2140886 C1	10-11-1999